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		GLASSIFICATION	N CONFIDENTS		REPORT
	12.	INFORM	MATION F	EFURT	CD NO.
COUNTRY	USSR (Kuyb	/shev Oblast)			25X1
SUBJECT		ant no. 525 i	n Kuvhyshevelie	Z trzyronko	DATE DISTR. 12 Nov. 1952
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1eng 1916 20 k 4-cs 6-cs grin	to 30 lath bogie wheels vlinder Gorke vlinder Zavo nding shop.	ps in late 192 , about 350 mm pvskiy Avto Zav d Imeni Stalin and chain link	sed length of 18. The day-sin in dismeter, wood (GAZ) (Gorkon (ZIG) (Staling S. 300 x 500	t noter increated for tanks or iy automobile in Factory) or	-Drehbaenken) with a total ased from 20 lathes in a of the foundry was about tractors. Crankshafts for factory) engines and an the
leng 19hd 20 k h-co 6-co grir fact	to 30 lath pogie wheels wlinder Gerke wlinder Zavo nding shop, tured in the	ps in late 191 , about 350 mm pvskiy Avto Zav d Imeni Stalin	and length of the day-side in diameter, wod (GAZ) (Gork as (ZIS) (Stalits, 300 x 500 reate of production of weaponed)	t certspinde. Incher increa If production for tanks or iy autopobile in Factory) or m, for tanks of tion was not onswere known	escape and the foundary was about tractors. Crankshafts for factory) engines and agines were ground in the partractors, were manual known.
leng 1916 20 k 4-co 6-co grir fact 4. No a 5X1 5X1 proce 5X1 guns 5X1 ship 1ink o f	to 30 lath pogie wheels vlinder Gerke vlinder Zavo nding shop, tured in the eccurate dat fuction of t a was observ as for disin AT rifles w	cs in late 191 , about 350 mm pyskiy Avto Zav d Imeni Stalin and chain link foundry. The a on the produ the barrel he 12.7-mm DSh ed. One specia shift producti tegrating belt as also observ	ced length of the day-size in in diameter, wod (GAZ) (Gork in (ZIS) (Stalina, 300 x 500 r rate of production of weare constitution of weare in the sign was in con of accessor in these riff	the tespinae.  In the receive of the production for tanks or iy automobile in factory) or man, for tanks of the receive of the received of the rece	-Drehbaenken) with a total ased from 20 lathes in a of the foundry was about tractors. Crankshafts for factory) engines and an the

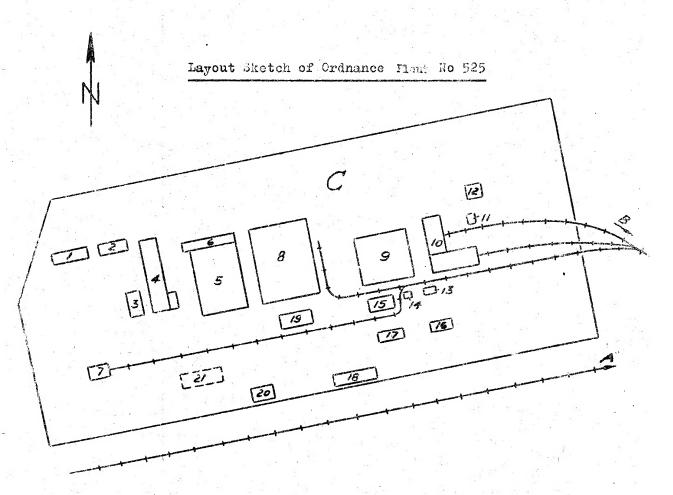
	Degtysrev(PTRD)(Antitank Rifle Degtysrev) models, and
0EV4	have a caliber of 20, and. The magazines for the AT rifles were
25X1	200 x 30 x 130 mm. The length of the cartridge is 180 mm. The magazine boxes
	made in the plant held five magazines each. In 19h7, eighty percent of the
25X1	machine (un barrels produced were said to be faulty. This figure allegedly
	dropped to 50 percent after the examination by a large commission.
25X1	the percentage of waste was very high.
OFVE	The plant woulded three shifts. Next 7 000 to 7 000 to 1
25X15∙	The plant worked three shifts. About 1,000 to 1,200 Russians and about 300 PVs were employed in each the first and second shifts while about 300 Russians
	and between 30 to 100 PEs worked in the third shift. About 2,000 workers ope-
	rated lathes, milling machines, and boring machines. About 600 were specialists
25X1	and 150 were uns illed workers. the total number of
23/11	employees to be between 2500 and 3000. Lout 40 percent of the workers were
	women.
6.	Incoming shipments of rew material consisted of round steel, square steel,
	nexagonal steel, steel ingots, and sheet steel. One source stated that incoming
	salpments of these materials this big iron ingots enounted to about 50 car-
	10805. A COLORD OI Copper sheets, bress sheets, and bress incote armived exempt
	week. Incoming semi-finished parts included bolt housings for heavy machine
	guns and AT rifles, which reportedly came from Tula, Gorkiy(56020'1/14000'E),
	and Moscow; red-brown plastic butts for T rifles; and crank shafts for motor
	vehicles. Castings for shaping machines came from Tula. Inscriptions written by German P's employed in the Ural area indicated that steel and iron shipments
1.00	came from that area. Information concerning the incoming chipments of raw
25X1	veries were discontinued in 1947.
0EV4	
25X1 7.	Civilian products and some of the weapons were shipped away by rail.
25X1	truck shipments of crates dispatched by the weapons shipping department.
	The weapons were shipped to beginning (Kockii /2001 Cirl)
25X1	and Eurmansk (68 58 N/33005 E), the machine tools went to Mescow and Sverdlovsk
25X1	(5604717/600441E), and the cream separators went to Gentral Asia and Kazak SSR.
O	power was supplied from the Tez Fezymyanka.
25X1 °*	power came from a power plant in Kuybyshev. Meating gas was
0574	supplied through a long distance cas line. The plant had a total of 40 to 50 mo-
25X1	tor vehicles.
	그렇게 하면 그렇게 되었다. 그는 집에 나는 그 이 그리고 그 사람들이 모르겠다. 그렇게 되었다.
9.	The plant was guarded by armed civilians. No air raid precoutions were observed.
25X1	Comment. For layout sketches of the plant and of the individual sections, see
25X1	America 1 to 5. For sketches of the various weapons renufactured at the plant, see
20/1	taken in 1913.
25X1	Comment. This Ordnance Flant is known from the Soviet press as the machine
	tool plant "Srednevolzhskiy" (Central Volga). One Sharskiy (Anu) was monager of the
	promote the state areas records increased and analysis and analysis and an increased in the state of the stat
	1991 OF TECHTO AND SUPER CULLINE MECHANOS TOTA DYNOGRAM in 1010 and 1010 m.
	The value of the control of the cont
	maderines, running at the nerver were twice as efficient so the older treatment
25X1	one capacity of the new macrines was three times that of the old ones
25X1	the production of weapons in 1948 and 1949 totaled 250 to 300
	machine runs per month.

Attachments: 6

1. Layout sketch of ordnance plant no. 525.
2. orkshop for the production of separators and machine tools.
3. Ordnance workshop.
4. orkshop for the production of tools.
5. Forge and foundry.
6. Sketches of weapons.

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### Logerd:

- A. Railroad from Kuybyshev to Bezymyanka.
- B. Spur track to the Bezymyanka railroad station.
- C. Ordnance Flant No 525.
  - 1. Marchouse for acid.
  - 2. Ammunition warehouse.
  - 3. Wooden hut housing various workshops.
  - 1. Underground testing range and shipping department.
  - 5. Korpus I. Cream separators and shaping machines were produced here.
  - 6. Central administration building, h stories.
  - 7. Oxygen installation.
  - 8. Korpus II. Ordnance factory.
  - 9. Korpus III. Eachine tool factory shop for the construction of jigs and fixtures, and hardening shop for weapons.
  - 10. Forge and foundry.
  - 11. Warehouse for materials.
  - 12. Fire brigade and garage.
  - 13. Fattern-making workshop.
  - 14. Transformer
  - 15. Posting plant.
  - 16 and 17. Saw mill, carpentery shop and lumber warehouse
  - 18. Warchouse.
- 19. elding shop and was generation plant where bipods and trigger mechanisms for antitank rifles and other small parts are made.

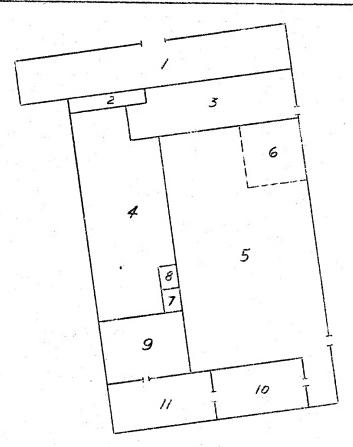
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	,	- 10		Attachment 2

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Workshop for the PRODUCTION

of Separators and Lachine Tools



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- 1. Main administration building, four stories,
- 2. Sanitary installations.
- 3. Tsekh (shop) 22. Repair section of the plant, equipped with machine tools, work benches, etc.
- 4. Froduction and assembly of separators. The equipment consisted of about 60 to 70 machine tools arranged in four rows, including 10 turret lathes, 5 medium-sized lathes, 12 small lathes, 20 small and medium-sized milling machines, and a number of assembly benches.
- 5. Tsekh 20: for the groduction of shaping machines and lead-screw lathes, equipped with a total of about 100 machine tools, including:
  - I large single-spindle boring mechine of Kolb make
  - 1 large single-spindle boring mechine of Raboma make
  - 1 medium-sized single-spindle boring machine of Rabona make
  - 1 parallel planing machine, plane length about 3 meters, width about 1 meter, of German make.
  - 2 parallel planing machines, plane length about h meters, width 1.5 meters, of Boeringer make.
  - 1 parallel planing machine, plane Length 5 meters, width 1 meter, of Skoda make.
  - I horizontal boring machine of German make.
  - 1 small horizontal milling machine of Russian make.
  - 1 small vertical milling machine of German make.
  - 1 medium-sixed horizontal boring machine of Mussian make.
  - 1 lathe, center distance about 5 meters, height of centers about 1 meter, of Raboma make.
  - 1 large berizontal boring machine of German make.
  - 1 lathe, center distance about 3 meters, height of centers about 600 mm, of VDF make.
  - 1 small horizontal boring machine of American Karns make. I Work benches with viscs, and assembly pits for mounting the shaping machines.
  - 1 lathe, center distance about 2.5 meters, of Hussian make.
  - 1 lathe, center distance about 1.5 meters, of Russian makes
  - 3 lathes, center distance 1.20 meters, height of centers about 400 mm, of kussian make, Type 200.

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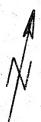
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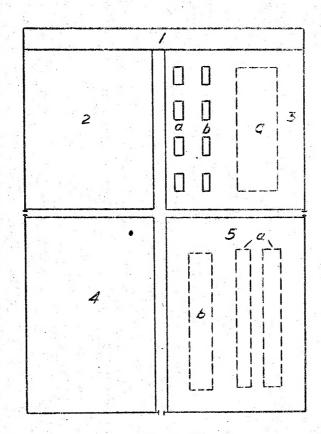
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- 10 small lathes, center distance about 1 meter, height of centers about 150 mm, of Russian make.
- 1 lathe, center distance about 2.5 meters, height of centers about 600 mm, of Gustloff make.
- 1 bevel gear milling machine of Russian make.
- I bevel gear milling machine of German make.
- 2 small horizontal milling machines of Russian make.
- 2 small vertical milling machines of Russian make.
- 1 circular grinding machine of Russian make.
- I surface grinding machine of Russian make.
- 2 lathes, 120 x 10 centimeters, of Mussian make.
- 2 small lathes, about 100 x 15 centimeters, of Russian make.
- 6. Assembly from for machine tools.
- 7. Spraying shop for cream separators.
- 8. Crankshaft grinding shop with 8 grinding machines.
- 9. Shop for chrome plating cream separators, equipped with 6 electric units.
- 10. Tempering shop for weapons and for components of shaping machines and separators, equipped with 4 electric hardening furnaces and 5 quenching baths.
- 11. Polishing shop for component parts for cream separators.

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		Ordnance	Workshop	25X1	
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Attachment 3

- 2 -

### Legend:

- 1. Plant kitchen.
- 2. Lathe shop for weapon parts, equipped with 60 to 80 machine tools, most of which were lathes.
- 3. Tsekh 31, punching shop and pressing shop for wes on parts, equipped with:
  - a. 3 or h heavy-duty eccentric punching machines.
  - b. 4 or 5 small eccentric punching machines.
  - c. 15 small punching machines, 4 or 5 circular saws for metal working, 1 automatic punching machine for machine cun ammunition belt links, 6 lathes, 6 turning—and-boring mills, several boring machines and grinding machines.
- 4. Ordnance assembly shop with adjusting plant where heavy 70 DShK and antitank rifles were seen.
- 5. Lathe shop and slotting shop for barrels.
  - a. Two rows, with a total of about 16 four-spindle horizontal boring machines used for the production of barrels.
  - b. Five or 6 lethos used for outside eachining of the barrels and 2 or 3 slotting machines for the simultaneous machining of 10 barrels.

About 300 workers were employed in this shop.

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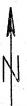
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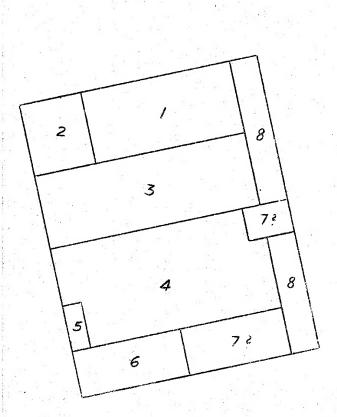
Jorkshop for the Production of Tools

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LEGEND : See next page

Attachment 4





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25X1
Attachment 4

- 2 -

#### Legend:

- 1. Tsekh 10, where gauges were produced and measuring instruments were repaired.
- 2. Test laboratory for gauges and optical reasuring instruments.
- 3. Tsekh ll, where jigs and fixtures for the production of weepons were constructed, equipped with about 21 different machine tools.
- $h_*$  lechanical section, equipped with about 100 machine tools, used for the production of cutting tools for plant requirements.
- 5. Tool shed.
- 6. Welding shop equipped with 5 electric and 3 acetylene welding machines. The pedestals for twin rachine guns were welded here.
- 7. Hardening shop for gauges and cutting tools and also for gun barrels, equipped with 5 or 6 electric annualing furnaces, 2 gas-fired furn ces and several annualing baths.
- 8. Offices and test laboratories,

Between 600 to 700 workers were employed in this shop.

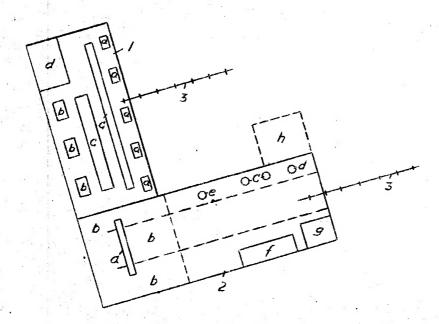
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forge and Foundry

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25X1

25X1

### Legend:

- 1. Forge, equipped with
  - a. 4 or 5 American steam hammers.
  - b. 2 or 3 heavy-duty USA harmers.
  - c. latural gas fired annealing furnaces, one for each harmer.
  - d. Die-making section, There were also several presses for the manufacture of machine gun barrels, boring machines and lathes, and an oil-both hardening installation with gas-fired furnaces.

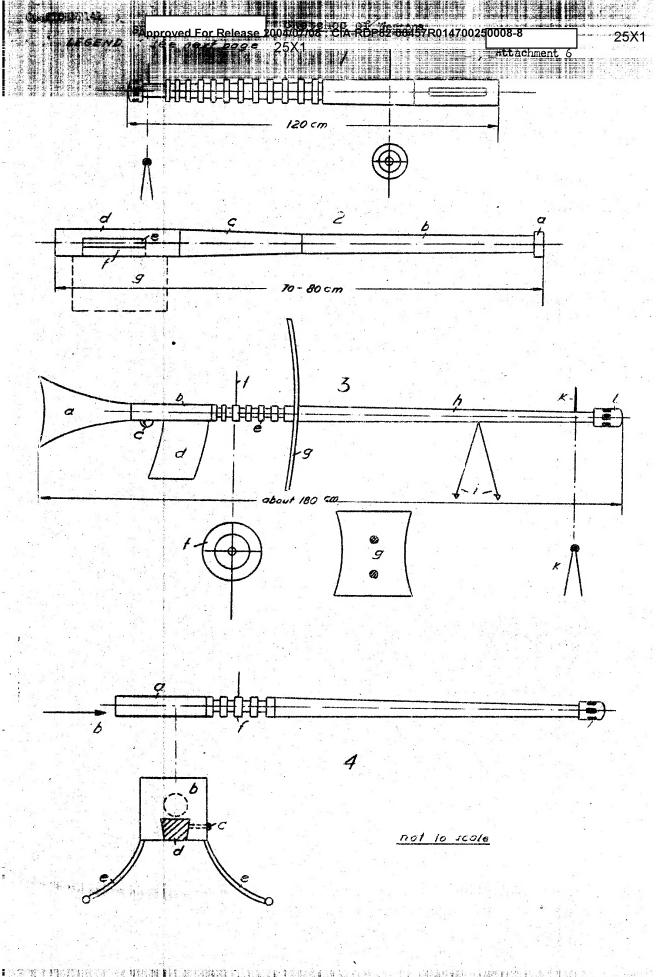
Parrels for thel2.7-mm machine guns were forged in four different dies after being preheated. The time required for each barrel was about 2 minutes. The barrels for antitank rifles required longer processing. They were subjected to 3 annealing operations and then to 5 or 6 blows under the steam hammer in different dies.

- 2. Foundry and molding Shop:
  - a. Traveling crane.
  - b. Holding shop with 2 or 3 molding machines.
  - c. 2 electric steel furnaces with a capacity of 1 to 1.5 tons.
  - d. 1 or 2 cupolas.
  - e. Meetric smelting furnace for nonferrous retals.
  - f. 3 mixers for molding sand.
  - g. Casting cleaning shop.
  - h. Unfinished brick building which had no roof. No construction work was noticed although the Russians said the foundry was to be expanded.

In addition to producing castings, the foundry also produced and shipped 10 gear boxes for T-34 tanks during the day-shift and 20 smaller gear boxes, probably for tractors. A Russian expert also manufactured two ship screws per day from time to time.

3. Railroad tracks.

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### Legend:

- 1. Barrel, probably for a heavy DShK machine cun.
- 2. Barrel, allegedly of a 12.7-mm or 20-mm sircraft cannon:
  - a. Compensator.
  - b. Smooth cylindrical part of borrel.
  - c. Conical part of barrel.
  - d. Lock mechanism.
  - e. Opening for side belt feed.
  - f. Certridge case ejector.
  - g. Fabric bag for empty cartridge cases about the size of a brief case.
- 3. Sketch of an AT rifle:
  - a. Red-brown plastic butt.
  - b. Closing mechanism with lock.
  - c. Trigger.
  - d. Carthinge magazine, 200 x 30 x 130 mm.
  - e. About 7 circular grooves, approximately 7-mm wide.
  - f. Ring sight. Side and front views.
  - g. Protective shield, 5 to 0 mm thick, about 700 mm high, and about 600 mm wide. Side and front views.
  - h. Smooth, conical part of barrel.
  - i. Linged bipod.
  - k. Sighting device, a small round disk with a tiny round hole. Side and front views.
  - 1. Cost iron cylindrical muzzle brake with 4 rectangular perforations.
- It. A weapon similar to the AT rifle. Side and rear views:
  - a. Cloding mechanism with lock.
  - b. Polt mechanism.
  - c. Side press-button, which operates a spring closure fitted in recess d.
  - d. Filled recess.
  - e. Prackets attached to each side, with small ring welded on the end.
  - f. About 7 circular grooves, 7 nm wide.

The weapons shown in sketches 3 and 4 are of about 20-mm caliber and have identical barrels and sighting devices.